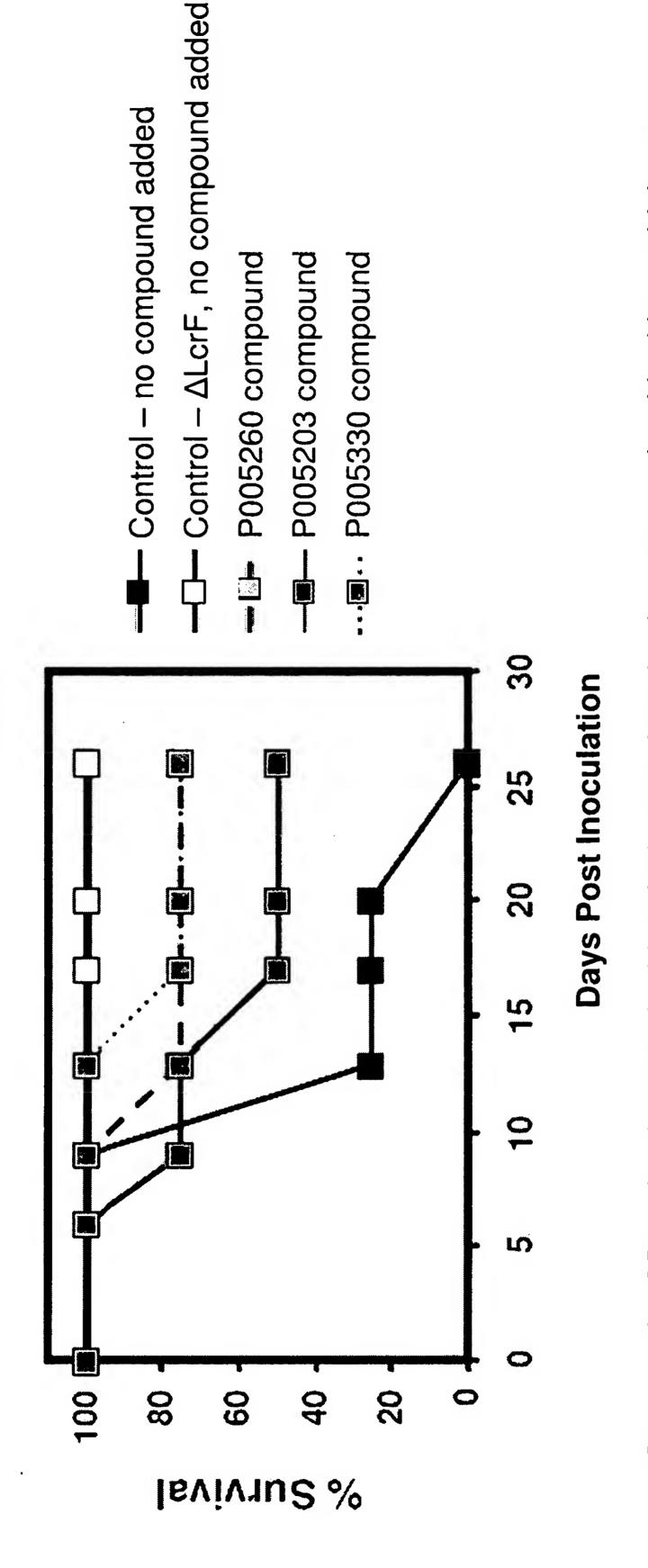
Figure 1

# Efficacy of LerF Imhibitors in a Lethal Viseudotable premium Model

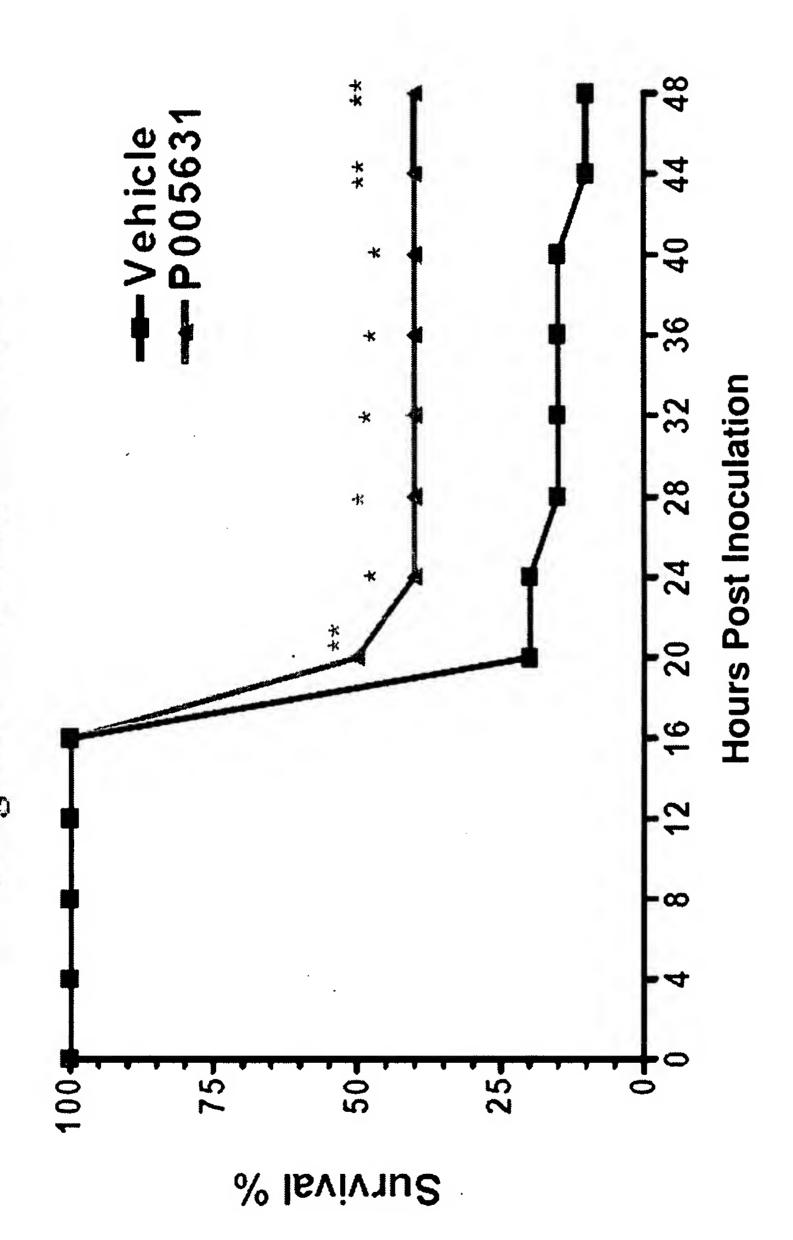


compound (25 mg/kg) 1 day prior to inoculation, at the time of inoculation (0h), at 8h, and then daily for 8 days following intranasal inoculation with ~120 CFU of wild type (WT, IP2666pIB1) or Groups of 4 CD1 mice (7-8 week old males) were dosed subcutaneously with either vehicle or ALcrF (JMB155) Y. pseudotuberculosis. Note that % Survival data for P005260 and P005330 run on top of each other.

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### ficacy of Exs. Inhibitors in a Lethal P. neruginosa Pheumonia Model

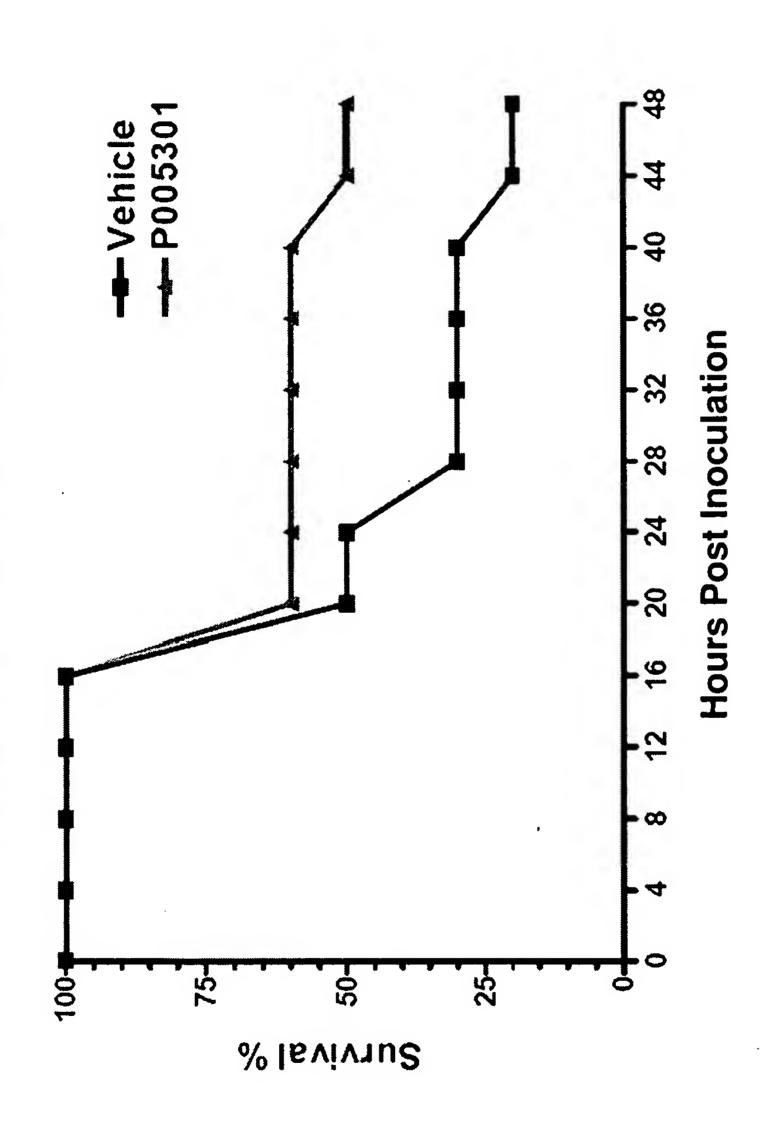


IP at 25 mg/kg at 18 hours before inoculation, 1 hour before inoculation and 2, 5, 20, 26, and 44 hours Efficacy of P005631 and P005301, prototypic ExsA inhibitors, vs. Pseudomonas aeruginosa PA103 in a mouse lethal pneumonia model (106 organisms inoculated intranasally). P005631 was administered inoculation. Mortality was assessed at various times post inoculation. A statistically significant difference was noted between the untreated (vehicle) and the P005631 treated groups. \*\* p<0.05, \* p<0.1 by Chi-Square analysis, n = 22 mice/group.

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Figure 2B

## Efficacy of Exs. Inhibitors in a Lethal P. aeraginosa Paeumonia Model



P005301 was administered IP at 25 mg/kg at 18 hours before inoculation, 1 hour before inoculation and 5, 20, 26, and 44 hours post-inoculation. Mortality was assessed at various times post inoculation, n = 6-8 mice/group.

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Docket No.: PAZ-190RCE

Figure 3

# Efficacy of LerF Inhibitors in a Non-Lethal Lung Infection Model

in the cell free DNA binding assay and Y. pseudotuberculosis vivo efficacy using a non-lethal lung infection model. LcrF inhibitors that exhibited activity cytotoxicity assay were tested for in

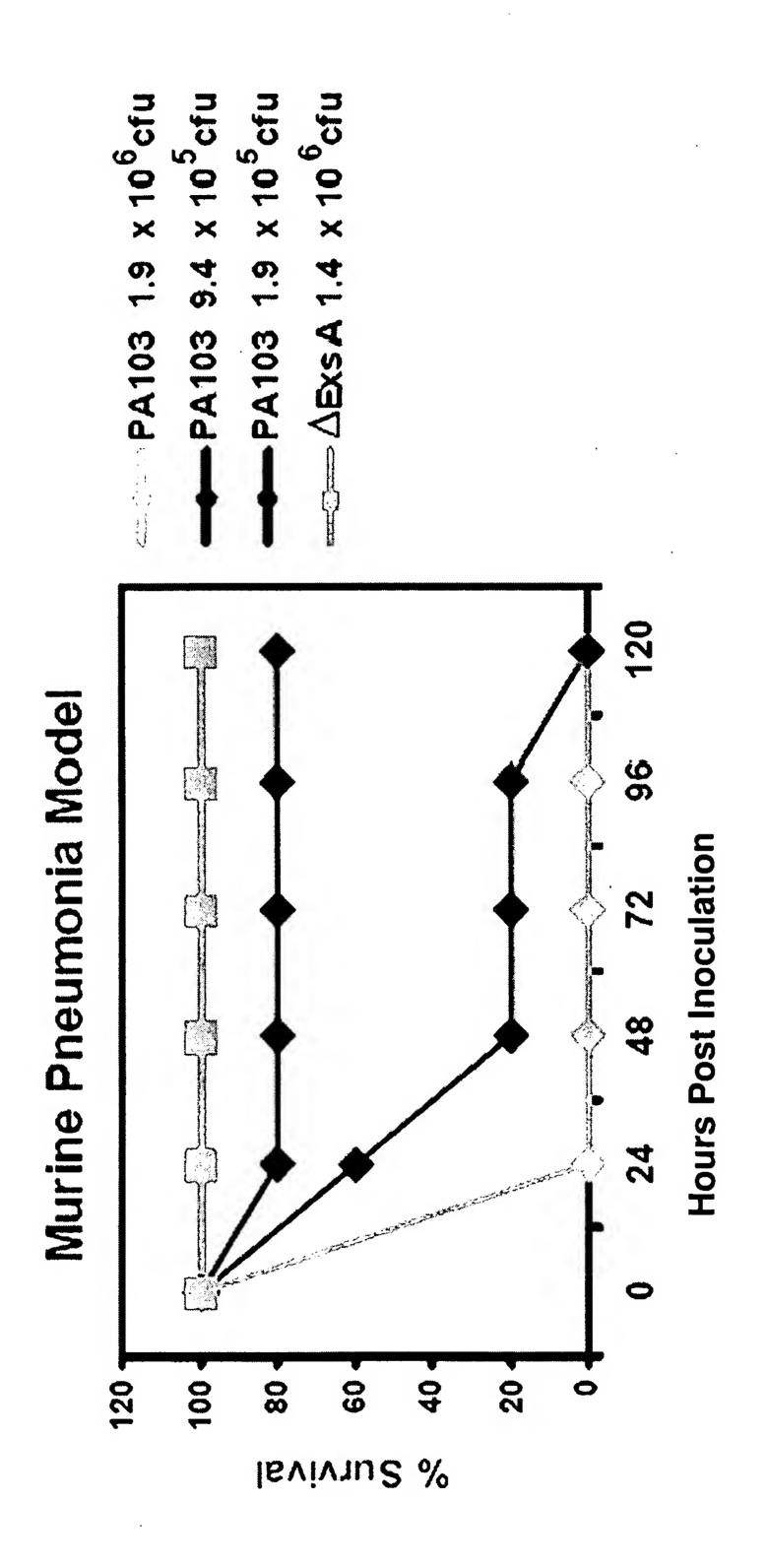
(JMB155) Y. pseudotuberculosis. Mice were sacrificed 3 days post inoculation and serial dilutions of lung daily for a further 2 days. Mice were inoculated intranasally with ~700 CFU of WT (IP2666pIB1) or ALcrF Groups of 4 CD-1 mice (7-8 week old males) were treated with a single subcutaneous dose of vehicle or infection, at the time of infection, at 8 h post infection, then once LcrF inhibitor (25 mg/kg) 1 day prior to tissue homogenates were plated.

Compound	Log Decrease in CFU/g Lung Tissue <sup>a</sup>
P005203	1.5
P005330	0.8
P005260	1.1
ΔLcrF, no compound added	2.0

a Decrease relative to vehicle treated mice infected with wild type Y. pseudotuberculosis.

Figure 4

#### Exs. Mutants are Avirulent in Animal Models of Infection



Groups of 5 Swiss Webster mice were inoculated intranasally with the indicated numbers of bacteria in 50µL PBS. Murine Pneumonia Model: